

ABSTRACT

A power supply device has a capacitor unit in which capacitors are interconnected in series, a charging unit for charging the capacitor unit at a constant current, a detecting unit for detecting voltage on the high potential side of each of the capacitors, a determining unit for determining the existence of an abnormality based on the voltage detected by the detecting unit. The determining unit determines the abnormality when the difference between respective voltages on the high potential sides of some adjacent capacitors exceeds upper-limit voltage value Va, when the difference is lower than lower-limit voltage value Vb, or when a voltage is negative.